

Pajaro River Watershed Emergency Drought Program

ATTACHMENT 5: BUDGET SUMMARY

Pajaro River Watershed Emergency Drought Program Budget Summary Table

The Pajaro River Watershed IRWM region is requesting \$12,261,898 in funding from the IRWM Drought Grant Program for the implementation of critically needed water supply projects to alleviate impacts from the drought.

Summary Budget						
Proposal Title: Pajaro River Watershed Emergency Drought Program Budget Summary Table						
		(a)	(b)	(c)	(d)	(e)
	Individual Project Title	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost	% Funding Match (col. b/col. d)
(a)	Project No. 1 Delivered Water Enhancement and Drought Response Irrigation	\$3,556,000	\$1,188,000	\$0	\$4,744,000	25%
(b)	Project No. 2 South County Recycled Water Improvements	\$120,750	\$31,508	\$0	\$152,258	21%
(c)	Project No. 3 Expanded Recycled Water Use Project	\$2,160,000	\$742,000	\$0	\$2,902,000	26%
(d)	Project No. 4 Corralitos Creek Water Supply and Fisheries Enhancement	\$6,267,600	\$0	\$0	\$6,267,600	0%
(e)	Grant Administration	\$157,548	\$36,692	\$0	\$194,240	19%
(i)	Proposal Total (Sum rows (a) through (h) for each column)	\$12,261,898	\$1,998,200	\$0	\$14,260,098	--
(j)	DAC Funding Match Waiver Total (Sum column (d) only for projects seeking DAC funding match waiver in rows (a) through (h))	\$6,267,600	\$0	\$0	\$6,267,600	--
(k)	Grand Total (Subtract row (j) from row (i) and recalculate column (e) – Funding Match %)	\$5,994,298	\$1,998,200	\$0	\$7,992,498	25%

Project No. 1 Delivered Water Enhancement and Drought Response Irrigation

Project Budget					
Proposal Title: Pajaro River Watershed Emergency Drought Program					
Project Title: PVWMA Delivered Water Enhancement and Drought Response Irrigation					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: No					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$167,000	\$0	\$0	\$167,000
(b)	Land Purchase/Easement	\$0	\$20,000	\$0	\$20,000
(c)	Planning/Design/Engineering/Environmental Documentation	\$0	\$280,000	\$0	\$280,000
(d)	Construction/Implementation	\$3,389,000	\$888,000	\$0	\$4,277,000
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$3,556,000	\$1,188,000	\$0	\$4,744,000
*List sources of funding: <i>Cost share funds from existing capital reserves.</i>					

Project No. 1 Delivered Water Enhancement and Drought Response Irrigation. The total project cost for the Delivered Water Enhancement and Drought Response Irrigation is \$4,744,000, as shown in the table above. The project match is \$1,188,000, equivalent to 25% and satisfying the match requirement. A brief summary of the project costs documenting how the budget shown is reasonable based on current available information is shown below.

Category (a) Direct Project Administration (\$167,000)

Task 1. Project Administration. The budget for this task is 3.8 percent of construction / implementation costs, typical for a project of this nature.

Category (b) Land Purchase / Easement (\$20,000)

Task 2. Land Purchase / Easement. The budget for this task is based on the acquisition of a 20-foot wide permanent easement for the entire length of the pipeline for a total of 5 acres. The cost of right of way acquisition has been estimated at approximately \$4,000 per acre.

Category (c) Planning / Design / Engineering / Environmental Documentation (\$280,000)

Task 3. Design (\$270,000). The budget for this task is based on an existing contract with Carollo Engineers for preparation of the 100 percent design of the Blend Wells Pipeline (\$100,000), a future contract for completion of final design for the K-1 pipeline (\$140,000), and DRIP planning / design fee estimates from the Resource Conservation District of Santa Cruz County and the Central Coast Agricultural Water Quality Coalition (\$30,000).

Task 4. Permitting (\$10,000). The budget for this task is based on an estimate of costs to obtain an Encroachment Permit and an NPDES General Permit for Storm Water Discharges Associated with Construction Activity. These permitting costs are consistent with previous PVWMA projects.

Category (d) Construction / Implementation (\$4,277,000)

Task 5. Construction Contracting. This task will be completed by PVWMA staff. The budget for this task is included in Task 8 Construction Administration.

Task 6. Construction (\$3,430,000). A construction cost estimate was prepared based on the 50 percent design. The estimated construction cost includes mobilization, installation of connections to existing facilities, the pipelines, and service connections to the end users. The cost estimate also includes sales tax on materials, contractor's overhead and profit, bonds and insurance, and escalation to the midpoint of construction approximately one year from now. In addition, because the design had not fully progressed, a 20 percent contingency has been included to account for unknown conditions and changes in the final design.

Task 7. Environmental Compliance during Construction. This task will be completed by PVWMA staff. The budget for this task is included in Task 8 Construction Administration.

Task 8. Construction Administration (\$340,000). Construction administration was estimated based on 10 percent of the construction cost, and includes construction management services, engineering services during construction, and Labor Compliance documentation.

Task 9. Irrigation Efficiency Program Implementation (\$502,000): Irrigation Efficiency Program Implementation including irrigation system evaluations, data analysis and implementation of irrigation system upgrades, irrigation scheduling technology, grower trainings, on-farm performance monitoring and grower surveys to measure program impacts. The fee estimate is from the Resource Conservation District of Santa Cruz County and the Central Coast Agricultural Water Quality Coalition and based on similar programs.

Task 10. Recycled Water User Training (\$5,000). This task involves conducting a workshop with users to inform them of recycled water use laws and regulations to ensure compliance and protect health and safety and the environment. Following the workshop, PVWMA Water System Operators will conduct a site visit with the lead irrigator to ensure compliance with the rules and regulations for recycled water use.

Project No. 2 South County Recycled Water Improvements

Project Budget					
Proposal Title: Pajaro River Watershed Emergency Drought Program					
Project Title: SCVWD South County Recycled Water Improvements					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$0	\$7,208	\$0	\$7,208
(b)	Land Purchase/Easement	\$0	\$5,176	\$0	\$5,176
(c)	Planning/Design/Engineering/Environmental Documentation	\$0	\$8,527	\$0	\$8,527
(d)	Construction/Implementation	\$120,750	\$10,597	\$0	\$131,347
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$120,750	\$31,508	\$0	\$152,258
*List sources of funding: All of the cost share will be funded through SCVWD Water Utility Zone W-5 revenues. The project is included in the SCVWD Capital Improvement Program.					

Project No. 2 South County Recycled Water Improvements. The total project cost for the South County Recycled Water Improvements is \$152,258, as shown in the table above. The total construction cost is equivalent to just over \$50,000 per turnout, which is consistent with the costs to install previous turnouts on the South County Recycled Water system. The project match is \$31,508, equivalent to 21%. The individual project does not satisfy the 25% project match requirement; however, the overall Proposal satisfies the 25% match requirement. A brief summary of the project costs documenting how the budget shown is reasonable based on current available information is shown below.

Category (a) Direct Project Administration (\$7,208)

Task 1. Project Administration. Direct Project Administration costs are about 5% of total project costs, which is appropriate for this relatively simple project. The estimate is based on an estimated 53 SCVWD labor hours. The budget is based on SCVWD experience with other DWR grants.

Category (b) Land Purchase / Easement (\$5,176)

Task 2. Land Purchase / Easement. The easement acquisition cost estimate is based on an estimated 51 SCVWD labor hours. SCVWD has professional real estate and surveyors on staff, so outside services are unnecessary. The budget is based on SCVWD experience with obtaining easements.

Category (c) Planning / Design / Engineering / Environmental Documentation (\$8,527)

Task 3. Design. (\$2,201) The design cost estimate is based on an estimated 17 SCVWD labor hours. SCVWD has professional design engineers on staff, so outside services are unnecessary. Preliminary design work has been completed. The budget is based on SCVWD experience with similar turnout designs.

Task 4. Environmental Documentation. (\$5,334) The environmental documentation cost estimate is based on an estimated 48 SCVWD labor hours. SCVWD has environmental planners on staff, so outside services are unnecessary. The budget is based on SCVWD experience with similar turnout environmental documentation.

Task 5. Permitting. (\$992) The permitting cost estimate is based on an estimated 8 SCVWD labor hours. The budget is based on SCVWD experience with similar turnout environmental documentation.

Category (d) Construction / Implementation (\$131,347)

Task 6. Construction Contracting. (\$2,265) This task will be completed by SCVWD staff using an estimated 19 labor hours. The budget is based on SCVWD experience with similar contracts.

Task 7. Construction. (\$120,750) The cost of each turnout is estimated at \$35,000, based on bids received in early 2014 that ranged from \$33,953 each to \$37,300 each. A 15 percent contingency was added to the estimated cost, since costs may escalate before the project is bid and there may be additional requirements identified in the Engineers Report.

Task 8. Environmental Compliance During Construction. (\$2,856) This task will be completed by SCVWD staff using an estimated 24 hours of labor time. The budget is based on SCVWD experience with similar projects.

Task 9. Construction Administration. (\$4,732) The construction administration cost estimate is based on an estimated 40 SCVWD labor hours. SCVWD has construction managers on staff, so outside services are unnecessary. The budget is based on SCVWD experience with similar construction projects.

Task 10. Recycled Water User Training. (\$744) The recycled water user training cost estimate is based on an estimated 6 SCVWD labor hours (2 hours per user). SCVWD has water system operators, so outside services are unnecessary. The estimate is based on SCVWD experience with similar user training.

Project No. 3 Expanded Recycled Water Use Project Budget

Project Budget					
Proposal Title: Pajaro River Watershed Emergency Drought Program					
Project Title: SBCWD Expanded Recycled Water Use Project					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$0	\$47,000	\$0	\$47,000
(b)	Land Purchase/Easement	\$0	\$40,000	\$0	\$40,000
(c)	Planning/Design/Engineering/Environmental Documentation	\$0	\$205,000	\$0	\$205,000
(d)	Construction/Implementation	\$2,160,000	\$450,000	\$0	\$2,610,000
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$2,160,000	\$742,000	\$0	\$2,902,000
*List sources of funding: <i>Cost share funds from existing capital reserves.</i>					

Project No. 3 Expanded Recycled Water Use Project Budget. The total project cost for the Expanded Recycled Water Use Project is \$2,902,000, as shown in the table above. The project match is \$742,000, equivalent to 26% and satisfying the match requirement. A brief summary of the project costs documenting how the budget shown is reasonable based on current available information is shown below.

Category (a) Direct Project Administration (\$47,000)

Task 1. Project Administration. The budget for this task is based on approximately 2 percent of construction costs, typical for SBCWD projects of this type.

Category (b) Land Purchase / Easement (\$40,000)

Task 2. Land Purchase / Easement. The budget for this task is based on the acquisition of a 20-foot wide permanent easement for the entire length of the southerly pipeline. The northerly pipeline is located in an existing easement, and thus, does not require additional easements. The cost of right of way acquisition has been estimated at approximately \$10,000 per acre for approximately 4 acres.

Category (c) Planning / Design / Engineering / Environmental Documentation (\$205,000)

Task 3. Design (\$85,000). The budget for this task is based on an existing contract with San Benito Engineering for preparation of the 50 percent design (\$55,000) and a proposed contract with the same consultant for completion of final design (\$30,000).

Task 4. Engineering (\$97,000). The budget for this task is based on an existing contract with HDR Engineering for program implementation activities, including preparation of the Phase I Recycled Water Facilities Project Components Technical Memorandum (June 2014), the addendum to the Title 22 Engineer's report and associated discussions with the Regional Water Quality Control Board to obtain approval of the new recycled water use area, and permitting support (as described in Task 6).

Task 5. Environmental Documentation (\$23,000). The budget for this task is based on an existing contract with AES for CEQA documentation, which was completed in June 2014.

Task 6. Permitting. This task will be completed by HDR under an existing contract for general program implementation services. The budget for this task is included in Task 4.

Category (d) Construction / Implementation (\$2,610,000)

Task 7. Construction Contracting. This task will be completed by SBCWD staff. The budget for this task is included in Task 10 Construction Administration.

Task 8. Construction (\$2,373,000). A construction cost estimate was prepared based on the 50 percent design. The estimated construction cost includes mobilization; installation of connections to existing facilities, the pipelines, and service connections to the end users; and upgrades of the existing pump station including controls and a new meter. The cost estimate also includes sales tax on materials, contractors overhead and profit, bonds and insurance, and escalation to the midpoint of construction approximately one year from now. In addition, because the design had not fully progressed, a 20 percent contingency has been included to account for unknown conditions and changes in the final design.

Task 9. Environmental Compliance During Construction: This task will be completed by SBCWD staff. The budget for this task is included in Task 10 Construction Administration.

Task 10. Construction Administration (\$237,000). Construction administration was estimated based on 10 percent of the construction cost, and includes construction management services, engineering services during construction, and Labor Compliance documentation.

Project No. 4 Corralitos Creek Water Supply and Fisheries Enhancement

Project Budget					
Proposal Title: Pajaro River Watershed Emergency Drought Program					
Project Title: Watsonville Corralitos Creek Water Supply and Fisheries Enhancement					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: Yes					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$110,000	\$0	\$0	\$110,000
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/Environmental Documentation	\$60,000	\$0	\$0	\$60,000
(d)	Construction/Implementation	\$6,097,600	\$0	\$0	\$6,097,600
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$6,267,600	\$0	\$0	\$6,267,600
*List sources of funding: <i>The City of Watsonville is a Disadvantaged Community and is requesting a waiver from the local match requirement.</i>					

Project No. 4 Corralitos Creek Water Supply and Fisheries Enhancement. The total project cost for the Corralitos Creek Water Supply Project is \$6,267,600, as shown in the table above. As a disadvantaged community, the City of Watsonville is seeking a waiver from the local match requirement. A brief summary of the project costs documenting how the budget shown is reasonable based on current available information is shown below.

Category (a) Direct Project Administration (\$110,000)

Task 1. Project Administration. The budget for this task is based on approximately 2 percent of construction costs, typical for projects of this type.

Category (b) Land Purchase / Easement (\$0)

All construction activities will be located on the developed portions of the City's existing water treatment plant facility. No land or easement purchases are required for this project.

Category (c) Planning / Design / Engineering / Environmental Documentation (\$60,000)

Task 2. Design. The 90 percent design submittal and specifications are complete. The design cost is based on a preliminary fee estimate from HDR Engineers for development of final plans, specifications, and an engineer's estimate of probable construction cost.

Category (d) Construction / Implementation (\$6,097,600)

Task 3. Construction Contracting. This task will be completed by City of Watsonville staff. The budget for this task is included in Task 6 Construction Administration.

Task 4. Construction. (\$5,547,600) A construction cost estimate was prepared based on the 90 percent design. The estimated construction cost includes mobilization, all equipment, materials, labor, and general conditions related to the construction of the Corralitos Water Treatment Facility. The cost estimate also includes sales tax on materials, contractors overhead and profit, bonds and insurance. In addition, because the design had not fully progressed, a 20 percent contingency has been included to account for unknown conditions and changes in the final design.

Task 5. Environmental Compliance During Construction. This task will be completed by City of Watsonville staff. The budget for this task is included in Task 6 Construction Administration.

Task 6. Construction Administration. (\$550,000) Construction administration was estimated based on approximately 10 percent of the construction cost, and includes construction management services, engineering services during construction, and Labor Compliance documentation.

PVWMA Grant Administration

Project Budget					
Proposal Title: Pajaro River Watershed Emergency Drought Program					
Project Title: PVWMA Grant Administration					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$157,548	\$36,692	\$0	\$194,240
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/Environmental Documentation	\$0	\$0	\$0	\$0
(d)	Construction/Implementation	\$0	\$0	\$0	\$0
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$0	\$0	\$0	\$0
*List sources of funding: Each project sponsor will contribute to the cost share from funds identified for individual project implementation.					

PVWMA Grant Administration. The total cost for PVWMA Grant Administration is \$194,240, as shown in the table above. A brief summary of the project costs documenting how the budget shown is reasonable based on current available information is shown below.

Category (a) Direct Project Administration (\$194,240)

Task 1. Pajaro River Watershed Emergency Drought Program Grant Application. (\$68,000) The budget for this task is based on an existing contract with Gutierrez Consultants for preparation of the Pajaro River Watershed Emergency Drought Program Grant Application.

Task 2. Conditional Grant Award. (\$6,000) The budget for this task is based on an existing contract with Gutierrez Consultants for submittal of the required project information if the Pajaro River Watershed is conditionally awarded a grant.

Task 3. DWR Grant Agreement. (\$6,000) The budget for this task is based on an existing contract with Gutierrez Consultants for supporting the development of the DWR Grant Agreement if the Pajaro River Watershed is conditionally awarded a grant.

Task 4. Project Sponsor Grant Agreements. (\$5,040) The budget for this task is based on an estimate from Gutierrez Consultants for developing three project sponsor grant agreements. The estimate assumes 8 hours per project for the development of the project sponsor grant agreement and supporting the execution of the agreements. The estimate is based on similar grant work with DWR.

Task 5. Quarterly Grant Invoicing and Reporting (\$94,080). The budget for this task is based on an estimate from Gutierrez Consultants for technically supporting the project sponsor's development of quarterly grant invoicing and reporting and compilation and submittal of the documents to DWR. The estimate assumes 8 hours per project per quarter (32 hours) throughout the term of the grant agreement, scheduled to end in June 2018 (14 quarters).

Task 6. Project Completion Reports. (\$10,080) The budget for this task is based on an estimate from Gutierrez Consultants for technically supporting the development of four project completion reports and coordination with DWR for release of retention. The estimate assumes 12 hours per project. The estimate is based on similar grant work with DWR.

Task 7. Grant Completion Report (\$5,040). The budget for this task is based on an estimate from Gutierrez Consultants for grant completion report consistent with DWR guidelines. The estimate assumes 24 hours. The estimate is based on similar grant work with DWR.